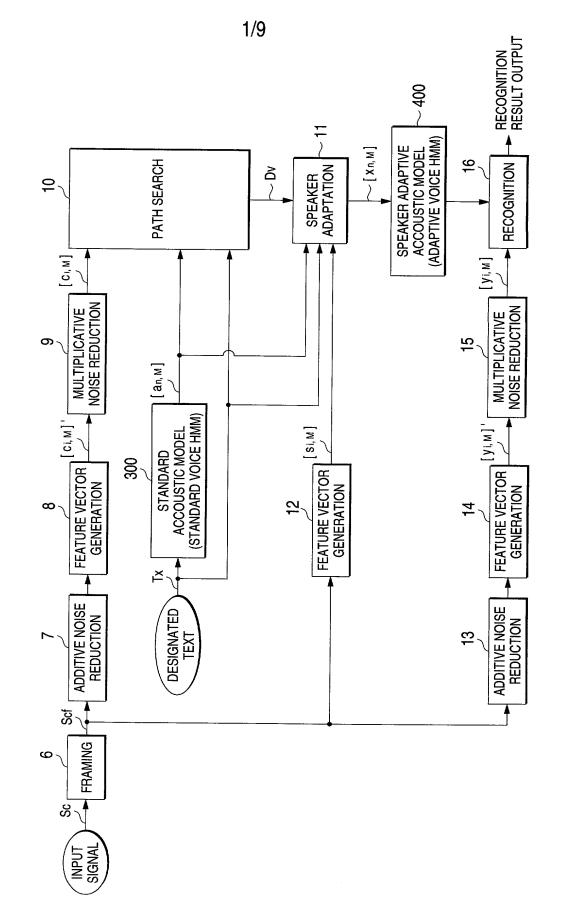
FIG. 1



2/9 **FIG. 2**

STATE NUMBER n	SYLLABLE	, , <u>, , , , , , , , , , , , , , , , , </u>		D VEOTO	D []	740.7
				RD VECTO	H [an,M]	
1	Α	[a1,1	a 1, 2	a 1, 3		a1, M]
2		[a 2, 1	a 2, 2	a 2, 3		a 2, M]
3	U	[a 3, 1	a 3, 2	a 3, 3		аз, м]
4	E	[a 4, 1	a 4, 2	a 4, 3	******	а 4, м]
5	0	[a 5, 1	a 5, 2	a 5, 3	*****	а 5, м]
6	KA	[a 6, 1	a 6, 2	a 6, 3		а 6, м]
10	KO	[a 10, 1	a 10, 2	a 10, 3		а 10, м]
11	SA	[a11,1	a 11, 2	a 11, 3		а 11, м]
16	TA	[a 16, 1	a 16, 2	a 16, 3		а 16, м]
17	Tl	[a 17, 1	a 17, 2	a 17, 3		а 17, м]
	:					
21	NA	[a 21, 1	a 21, 2	a 21, 3		а21, м]
22	NI	[a 22, 1	a 22, 2	a 22, 3		а 22, м]
	:					
26	HA	[a 26, 1	a 26, 2	a 26, 3		а 26, м]
				:		
31	MA	[a 31, 1	a 31, 2	a 31, 3		аз1, м]
	•••			:		
36	YA	[a 36, 1	a 36, 2	a 36, 3		а з6, м]
37 _	YU	[a 37, 1	a 37, 2	a 37, 3		а 37, м]
38	YO	[a 38, 1	a 38, 2	a 38, 3		а зв, м]
39	RA	[a 39, 1	a 39, 2	a 39, 3		а зэ, м]
	i			:	······································	-
44	WA	[a 44, 1	a 44, 2	a 44, 3		a 44, M]
45	WO	a 45, 1	a 45, 2	a 45, 3		a 45, M]
46	N	[a 46, 1	a 46, 2	a 46, 3		а 46, м]
				:		
N	:	[an, 1	a N, 2	a N, 3		аи,м]

TIME

FIG. 3

FRAME	ΔΤ	THE TIME O	ESDEVKE		IONI
NUMBER	FEATU	JRE VECTO	R [si, м] GE	NERATED	IN THE
İ	FEATU	JRE VECTO	R GENERA	TION SECT	ION 12
1	[S1, 1	\$1,2	S1,3	*****	S1, M]
2	[S2, 1	\$2,2	\$2,3	•••••	\$2, M]
3	[S3, 1	\$3,2	S 3,3		\$3, M]
4	[S4, 1	\$4,2	\$4,3	*****	S4, M]
5	S 5, 1	\$ 5, 2	\$ 5,3	*****	\$5, M]
6	[S6, 1	\$6,2	S 6, 3	*****	\$6, M]
7	[S7, 1	\$7,2	\$ 7,3		S7, M]
8	[S8, 1	\$8, 2	S8, 3	*****	S8, M]
9	[S9, 1	\$ 9, 2	S 9, 3	*****	S9, M]
10	[S10, 1	\$10,2	S10, 3	•••••	S10, M]
11	[S11,1	S 11, 2	\$11,3		S11, M]
12	[S12, 1	\$12, 2	S 12, 3		S12, M]
13	[S 13, 1	S 13, 2	S 13, 3		S13, M]
14	[S14, 1	\$14,2	S14, 3	•••••	S14, M]
15	[S 15, 1	S 15, 2	S 15, 3	*****	S15, M]
16	[S 16, 1	S 16, 2	S 16, 3		S16, M]
17	[S17, 1	\$17,2	S 17, 3		S17, M]
18	[S18, 1	S 18, 2	S 18, 3		S18, M]
19	[S 19, 1	S 19, 2	S 19, 3	*****	S19, M]
20	[S 20, 1	\$20, 2	\$20,3		\$20, M]
			:		
:			i		
29	[S29, 1	S 29, 2	\$29, 3		\$29, M]
30	[\$30, 1	S 30, 2	\$30,3		\$30, M]
	1 500, 1	J 55, E	000, 0		330, IVI

TIME

FIG. 4

FRAME NUMBER i	FEAT	THE TIME C URE VECTO IPLICATIVE)R [сі, м] ОІ	UTPUTTED	FROM
1	[C1, 1	C1, 2	C1, 3		C1, M]
2	[C2, 1	C2, 2	C 2, 3		C2, M]
3	[C3, 1	C 3, 2	C 3, 3		Сз, м]
4	[C4, 1	C4, 2	C4, 3		C4, M]
5	[C5, 1	C 5, 2	C 5, 3	*****	С5, М
6	[C6, 1	C 6, 2	C 6, 3	*****	С6, М
7	[C7, 1	C 7, 2	C 7, 3	*****	С7, М
8	[C8, 1	C8, 2	C8, 3		С8, М]
9	[C9, 1	C 9, 2	C 9, 3	*****	С9, М]
10	[C10, 1	C 10, 2	C10, 3	*****	C10, M]
11	[C11, 1	C 11, 2	C11, 3	*****	C11, M]
12	[C12, 1	C 12, 2	C12, 3		C12, M]
13	[C13, 1	C13, 2	C13, 3		С13, м]
14	[C14, 1	C14, 2	C14, 3		C14, M]
15	[C15, 1	C 15, 2	C 15, 3	• • • • •	C15, M]
16	[C16, 1	C 16, 2	C16, 3	*****	C16, M]
17	[C17, 1	C17, 2	C17, 3		C17, M]
18	[C18, 1	C18, 2	C18, 3		C18, M]
19	[C19, 1	C19, 2	C 19, 3		C19, M]
20	[C20, 1	C20, 2	C20, 3		C20, M]
29	[C29, 1	C29, 2	C29, 3		C29, M]
30	[C30, 1	C 30, 2	C 30, 3		С30, М]

FIG. 5

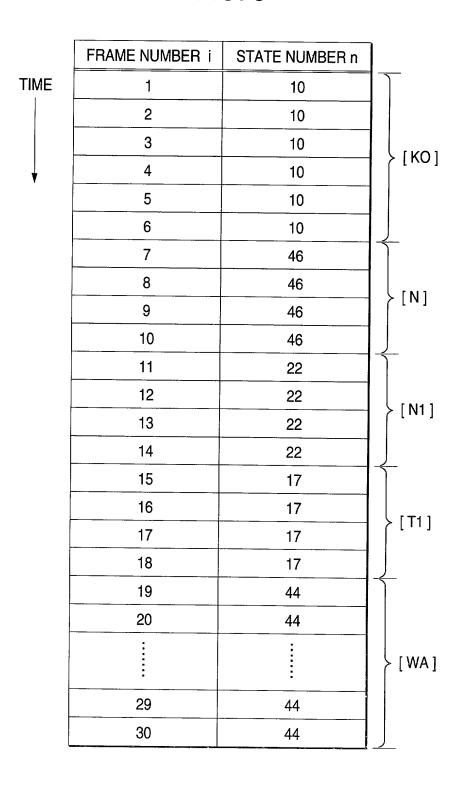


FIG. 6

FRAME NUMBER i	FEATURE VECTOR [si, m]	STATE NUMBER n	STANDARD VECTOR [an, M]	
1	[S1,1 ····· S1,M]	10	[a 10, 1 ····· a 10, M]	
2	[\$2,1 ····· \$2,M]	10	[a 10, 1 ····· a 10, M]	1
3	[\$3,1 ···· \$3,M]	10	[a 10, 1 ····· a 10, M]	
4	[S4,1 S4,M]	10	[a10,1 a10, M]	
5	[\$5,1 ···· \$5,M]	10	[a10,1 ····· a10, M]	
6	[S6, 1 ····· S6, M]	10	[a 10, 1 ····· a 10, M]	1]
7	[\$7,1 ····· \$7,M]	46	[a 46, 1 ····· a 46, M]	
8	[S8,1 ····· S8,M]	46	[a 46, 1 ····· a 46, M]	
9	[S9,1 ····· S9,M]	46	[a46,1 ····· a46, M]	$\left\{ \right. \left. \right\} \left[\right. \left[\right. \left[\right. \left[\right. \left[\right] \right] \right]$
10	[S10, 1 ····· S10, M]	46	[a 46, 1 ····· a 46, M]]]
11	[S11,1 ····· S11,M]	22	[a22,1 ····· a22,M]	
12	[S12,1 ····· S12,M]	22	[a22,1 ····· a22,M]	,,
13	[S13, 1 ····· S13, M]	22	[a 22, 1 ····· a 22, M]	
14	[S14,1 ····· S14, M]	22	[a22,1 ···· a22,M]	
15	[S15, 1 ····· S15, M]	17	[a 17, 1 ····· a 17, M]	
16	[S16, 1 ····· S16, M]	17	[a17,1 ····· a17, M]	
17	[S17, 1 ····· S17, M]	17	[a 17, 1 ····· a 17, M]	
18	[S18, 1 ····· S18, M]	17	[a 17, 1 ····· a 17, M]	
19	[S19,1 ····· S19,M]	44	[a 44, 1 ····· a 44, M]	
20	[S20, 1 ····· S20, M]	44	[a 44, 1 ····· a 44, M]	
	į	:	:	
:				> [WA]
29	[S29, 1 ····· S29, M]	44	[a 44, 1 ····· a 44, M]	
30	[S30, 1 ····· S30, M]	44	[a 44, 1 ····· a 44, M]	

FIG 7

	AVERAGE FEATURE VECTOR [Sp. M]	STATE NUMBER	STANDARD VECTOR	
			[מווי און	
AVERAGE OF i = 1 ~ 6	[S10,1 S10,M]	10	[a10,1 a10,M]	<u>K</u>
AVERAGE OF i=7~10	[S46,1 S46, M]	46	[a46,1 a46 M]	. Z
AVERAGE OF i=11 ~ 14	[\$22.1 \$22.M]	20		
AVERAGE OF i= 15 ~ 18	[S17 1 S17 M	17	[452, 1	
AVEDACE OF : 40 00	[M. (1)]	1	[a1/,1 a17,M]	
AVENAGE OF 1= 18 ~ 30	[S44, 1 S44, M]	44	[a44,1 a44,M]	₩]

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FIG. 8

STATE NUMBER n	SYLLABLE	ADAPTIVR VECTOR OF ACCOUSTIC HMM AFTER UPDATED				
1	А	[X1, 1	X1, 2	X1,3		X1, M]
2		[X2, 1	X2, 2	X 2,3	*****	X2, M
3	U	[X3, 1	X3, 2	X 3, 3		X3, M
4	Е	[X4, 1	X4, 2	X4, 3		X4, M]
5	0	[X 5, 1	X 5, 2	X 5, 3		X5, M]
6	KA	[X6, 1	X6, 2	X 6, 3		X6, M]
:	•			:		
10	KO	[X10, 1	X 10, 2	X 10, 3	*****	X10, M]
11	SA	[X11, 1	X11, 2	X11, 3	•••••	X11, M]
:	:					
16	TA	[X16, 1	X 16, 2	X 16, 3		X 16, M]
17	TI	[X17, 1	X 17, 2	X 17, 3	*****	X 17, M]
	:					
21	NA NA	[X21, 1	X 21, 2	X 21, 3		X21, M]
22	NI	X22, 1	X22, 2	X22, 3		X22, M]
:	:			:		
26	HA	X 26, 1	X 26, 2	X26, 3		X 26, M]
:	:			:		
31	MA	X31, 1	X31, 2	X31, 3		X31, M]
	:			:		
36	YA	X 36, 1	X 36, 2	X36, 3	•••••	X36, M]
37	YU	X 37, 1	X37, 2	X 37, 3	*****	X37, M]
38	YO	[X38, 1	X38, 2	X38, 3		X38, M]
39	RA	X39, 1	X 39, 2	X 39, 3		X39, M]
:				:		
44	WA	X44, 1	X44, 2	X44, 3		X44, M]
45	WO	X45, 1	X 45, 2	X 45, 3		X45, M]
46	N	X 46, 1	X46, 2	X 46, 3		X46, M]
:	:			:		
N		[XN, 1	XN, 2	XN, 3	* * * * * *	XN, M]
				A		

FIG. 9

